AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGES
J	1 | 8

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0005	March 10, 2003	SP0600-03-0530	Northeast ENVR

6. **ISSUED BY** CODE **SCO600**

Defense Energy Supply Center
8725 John J. Kingman Road, Suite 2941
Ft. Belvoir, VA 22060-6222
Bruce A.D. Jones/DESC-FPA/703-767-9334
Email: bjones@desc.dla.mil
Purchase Program: 6.1

7. **ADMINISTERED BY** (*If other than Item 6*) CODE

8. **NAME AND ADDRESS OF CONTRACTOR** (*NO., street. State, and zip code)*

CODE : FACILITY CODE Cage Code :

(✓) X

9A. AMENDMENT OF SOLICITATION NO.
SP0600-03-R-0027

9B. **DATED** *(SEE ITEM 11)*
January 28, 2003

10A. **MODIFICATION OF CONTRACT/ORDER NO.**

10B. **DATED** *(SEE ITEM 13)*

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[**X**] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [**X**] is extended [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following Methods: (a) By completing Items 8 and 15, and returning **1** copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted ; or (c) by separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change May be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. **ACCOUNTING AND APPROPRIATION DATA** *(If required)*

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b)
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER *Specify type of modification and authority)*

E. **IMPORTANT:** Contractor [] is not, [ ] is required to sign this document and return ____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION ***(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)***

Solicitation SP0600-03-R-0027 is hereby amended as follows:

a. The closing date of this solicitation is extended to March 18, 2003 @ 3:00 p.m. Eastern Standard Time.
b. Delete Clause B35, SERVICES TO BE FURNISHED AND PRICES (ENVIRONMENTAL) (DESC FEB 2003).
c. Insert Clause B35, SERVICES TO BE FURNISHED AND PRICES (ENVIRONMENTAL) (DESC FEB 2003) (Amended).
d. Delete Clause M28.04.100, BASIS FOR AWARD (DESC DEC 2002).
e. Insert Clause M28.04.100, BASIS FOR AWARD (DESC DEC 2002) (Amended).
f. Delete Statement of Work, Task 4, Task 5, Task 8, Task 13 and Task 14 and insert the language on pages 2 – 5.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. **NAME AND TITLE OF SIGNER** (*Type or print*)		16A. **NAME AND TITLE OF CONTRACTING OFFICER** ***(Type or print)***	
		AMY V. LOAR	
15B. **CONTRACTOR/OFFEROR**	15C.**DATE SIGNED**	16B. **UNITED STATES OF AMERICA**	16C.**DATE SIGNED**
(Signature of person authorized to sign)		*(Signature of Contracting Officer)*	

TASK 4. SOIL BORINGS. Contractor shall install borings using a hollow stem auger. Take soil samples every 5 feet or whenever a soil change is detected, employing a split spoon sampler. Samples shall be screened by headspace analysis using an Organic Vapor Analyzer (OVA) or equal. Drilling equipment shall be steam cleaned before installation of each boring. A certified geologist or hydro geologist shall be on-site throughout the drilling phase to classify soil conditions encountered, oversee boring installation, prepare boring logs, and monitor grouting of borings. Soil produced in drilling of borings shall be screened, and contaminated soil shall be placed on and covered with PVC sheeting. Non-contaminated soil shall be spread in the vicinity of the work. Disposal of contaminated soil will be authorized under ***Task 18***. Soil handling procedures outlined under this Task are also applicable to all other Tasks where potentially contaminated soil is generated in the form of cuttings or excavation. Analytical laboratory testing of soil samples obtained will be ordered under ***Task 8.***

TASK 5. MONITORING WELLS. Contractor shall install 2" or 4" monitoring wells, as ordered. The monitoring wells shall be installed in accordance with procedures accepted by the State in which work is performed and the USEPA. Drilling equipment shall be steam cleaned before each use. Samples shall be collected using a clean split spoon every 5 feet or whenever a soil change is detected. The headspace of all soil samples shall be analyzed for volatile organic vapors using an OVA or equal. Each well shall be developed to restore the natural permeability of the surrounding formation adjacent to the borehole, and until the water removed is sand free. Water produced in well development shall be collected in drums. Non-contaminated water shall be disposed of on-site in the vicinity of the work. Disposal of contaminated water will be authorized under ***Tasks 17 and/or 18.*** The work shall include obtaining one water sample from the well after development, but analytical testing shall be ordered under ***Task 8***. Water handling procedures outlined under this Task shall also be applicable for all other Tasks where water is produced with the exception of ***Task 12***. Personnel who are qualified in the locality in which the work is performed shall perform well construction. A certified geologist or a hydro geologist shall be present as required in Task 4. Abandonment of existing monitoring wells may also be ordered under this Task. Abandonment shall be conducted in full compliance with applicable regulatory agency requirements.

TASK 8. SAMPLE TESTING. Soil Samples collected under Task 4, 5, and 6 and Groundwater Samples collected under Tasks 5 and 6 shall be tested utilizing the test methods listed below. The types and number of tests to be performed for all Tasks will be determined at the time the work is ordered. In addition to providing “hard copies” of all analytical results, electronic deliverables of results must also be included in the price. The Offeror shall provide the turnaround time (business days) to obtain results and surcharges for 72 hour and 24 hour expedited turnaround. Sample preparation cost (extractions, dissolution, filtering, etc.) for samples requiring preparation prior to analysis shall be included in the price.

SOILS:

EPA METHOD	COMPOUNDS
418.1 (NYSDOH 310.13 for DFSP Verona, NY)	Total Petroleum Hydrocarbons
503.1 (DFSP Verona, NY)	Volatile Organics

SW-846 METHOD	COMPOUNDS
6010	Total Lead
8015	Non-Halogenated Volatile Organics
8021	Aromatic and Halogenated Volatiles
8041	Phenols
8081	Organochlorine Pesticides & PCE's
8121	Chlorinated Hydrocarbons
8151	Chlorinated Herbicides
8260	Volatile Organics

8270	Semi-Volatile organics
8310	Polynuclear Aromatic Hydrocarbons
8440	Total Recoverable Petroleum Hydrocarbons

GROUNDWATER:

40CFR136 METHOD	COMPOUNDS
601	Purgeable Halocarbons
602	Purgeable Aromatics
604	Phenols
608	Organochlorine Pesticides and PCBs
610	Polynuclear Aromatic Hydrocarbons
612	Chlorinated Hydrocarbons
624	Purgeables
625	Base/Neutral and Acids

SOILS/GROUNDWATER:

TCLP	Lead, Arsenic, Cadmium, Chromium Barium, Mercury, Selenium, Silver
9045	pH
1010/1020	Ignitability

PERMITTED OUTFALL AND OTHER TESTS:

Bioassay (Toxicity)	Sulfates
Sulfides	Nitrogen
Phenols	Turbidity
Lead	pH
Settleable Solids	Total Dissolved Solids
BOD	Suspended Solids
EDB	Phenolic Compounds (Chlorinated)
Oil & Grease	EPA-TO-14 (BTEX Only)
Nitrate/Nitrite	Ammonia
Total Organic Carbon	Orthophosphate
Moisture Content	Total Bacterial Plate Count
Selective Bacterial Plate Count	Soil Properties Testing API RP40
Grain Size ASTM D 4464	
Hydraulic Conductivity ASTM 2434/5084	

TASK 13. REMEDIATION. The results of the feasibility study and/or pilot test requested for the remediation systems listed below shall be used to install a functional full-scale remediation system. Documentation shall be prepared in sufficient detail to obtain approval of the system from regulatory agencies and enable installation and operation of the system. Actual installation of the system will be ordered under ***Tasks 17 and 18***. As part of the proposal, Offerors shall submit a summary of the process to be used to proceed from the feasibility study/pilot test phase to the full-scale operational system, for each remediation method. Reasonable assumptions about the size of the contaminated area, depth to groundwater, etc. should be made and explained. Proposals shall include the cost of studies/texts, the estimated number of man-hours and cost per man-hour to develop system documentation in sufficient detail to obtain regulatory agency approval for the remediation method and enable the Contractor to install a full-scale system.

a. Vapor Extraction System. Conduct a feasibility study and pilot test for a functional vapor extraction system. The pilot test shall as a minimum consist of installing four (4) vapor extraction wells to evaluate the region of influence, evacuation rates, and concentration of TPH in the extracted vapor stream by connecting a vacuum blower to one extraction well and monitoring the vacuum in the other wells.

b. In-Situ Bioremediation system. Contractor shall conduct a bioremediation feasibility study to execute an in-situ bioremediation process. Offeror shall include in the proposal a detailed explanation of what the study will include, but at a minimum include the following:

i. Conduct literature search
ii. Run general organic concentration tests
iii. Run treatability studies
iv. Select biological process to be applied

c. Air Stripper. Conduct an on-site pilot test using a mobile packed tower or any other acceptable method to examine the effects of such parameters as liquid loading rate, air: water ratio and packing height. Assume a flow rate of 2-10 GPM and a groundwater contamination level of 500 PPM TPH.

d. Liquid Phase Carbon Adsorption. Develop a liquid phase carbon adsorption system based on treating a 10 GPM flow at a contamination level of 500 PPM TPH using existing liquid phase adsorption isotherms, with effluent meeting drinking water standards.

e. Bioventing. System implementation shall be affected by soil permeability and the ability to move air through the soil, and increase subsurface oxygen concentrations, which is critical to enhancement of aerobic biologic activity. The evaluation will be targeted for

i. Determine the air permeability and effective radius of influence of injection wells.
ii. Assess biologic uptake of available oxygen, and resulting carbon dioxide production.
iii. Evaluate bioventing as a primary remediation system or to be used with other technologies.

f. Air Sparging. Conduct a pilot test to determine the effectiveness of air sparging. Injected air must contact impacted groundwater, and move through the groundwater to the vadose zone where it can be collected by a vapor extraction system. Use vadose zone soil-gas pressure, oxygen and carbon dioxide concentration measurements to determine additional indications of influence from the observation wells.

g. Steam Injection. Evaluate steam injection as a remedial technology using laboratory analysis. The purpose of the steam stripping shall be to evaluate the effectiveness of applying steam to remove adsorbed-phase organic compounds from the soil. Steam stripping shall be achieved by raising the matrix temperature resulting in elevated vapor pressure, reduced viscosities and increased mobilities.

h. Bioslurping. Conduct tests to evaluate bioslurping technology. The evaluation shall include bioventing employing low flow vapor extraction and free product recovery employing vacuum enhanced pumping.

i. Other. Offerors are invited to submit lump sum prices and details for alternative remediation methods for contaminated soil and/or water.

TASK 14. SITE OPERATIONS AND MONITORING. 1. Provide operations and maintenance (O&M) of existing dual phase product recovery system – Tanks 272 remediation of POL at Craney Island in accordance with the O&M manual provided by the government as part of this solicitation. 2. Conduct sampling and monitoring programs at DFSPs Verona and Newington in accordance with existing regulator-approved self-monitoring programs. The work includes preparation and submittal to the Contracting Officer of one draft copy of any required report. Upon approval by

the Contracting Officer prepare and submit one (1) final copy to the applicable regulatory agency and two (2) copies to the Contracting Officer. Upon final approval of all monitoring reports for each calendar year, provide the Contracting Officer one (1) CD-R media copy of all monitoring reports for the year to include all documents and correspondence relative to the reports.

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B35 **SERVICES TO BE FURNISHED AND PRICES (ENVIRONMENTAL) (DESC FEB 2003)**
The services to be furnished during the period specified herein and the unit prices are as follows:

FIVE YEAR CONTRACT PERIOD –September 12, 2003 THROUGH September 11, 2008

LEVEL UNIT PRICING IS PREFERRED

Contract Line Item Number	Services	Verona	Searsport	Newington	Melville	FISC Norfolk
0001	**Develop a Detailed Work Plan IAW TASK 1 of the SOW**					
0001A	**Lump Sum Price for Work Plan in Task 1 of the SOW to Include 5 Copies or Work Plan**	$_____	$_____	$_____	$_____	$_____
0001B	**Unit Price Per Hour in Excess of those Included in Lump Sum Work Plan**	$_____	$_____	$_____	$_____	$_____
0002	**Conduct Soil/Gas Survey IAW TASK 2 of the SOW**					
0002A	**Price Per Unit (10 points/unit) Soil Gas Units - 4 foot depth**	$_____	$_____	$_____	$_____	$_____
0002B	**Price Per Unit (10 points/unit) Soil Gas Units - 14 feet depth**	$_____	$_____	$_____	$_____	$_____
0002C	**Mobilization Cost for Soil Gas Survey**	$_____	$_____	$_____	$_____	$_____
0003	**Conduct Geophysical Survey IAW TASK 3 of the SOW**					
0003A	**Price Per Unit of Geophysical Survey (10,000 linear feet) to Include 5 Copies of a Report of Findings**	$_____	$_____	$_____	$_____	$_____
0004	**Locate Install and Sample Boring TASK 4 of the SOW**					
0004A	**Price per Boring up to 5 feet**	$_____	$_____	$_____	$_____	$_____
0004B	**Price per foot of Boring 6 to 20 feet**	$_____	$_____	$_____	$_____	$_____
0004C	**Price per foot of Boring 21 to 60 feet**	$_____	$_____	$_____	$_____	$_____
0004D	**Price per foot of Boring 61 to 150 feet**	$_____	$_____	$_____	$_____	$_____
0004E	**Mobilization Cost for Soil Borings**	$_____	$_____	$_____	$_____	$_____
0005	**Locate Install and Sample Monitoring Wells IAW TASK 6 of the SOW**					

0005A	**Price per 2" Monitoring Well up to 10 feet**	$_____	$_____	$_____	$_____	$_____
0005B	**Price per foot of 2" Monitoring Well 11 to 20 feet**	$_____	$_____	$_____	$_____	$_____
0005C	**Price per foot of 2" Monitoring Well 21 to 60 feet**	$_____	$_____	$_____	$_____	$_____
0005D	**Price per foot of 2" Monitoring Well 61 to 150 feet**	$_____	$_____	$_____	$_____	$_____
0005E	**Price per 4" Monitoring Well up to 10 feet**	$_____	$_____	$_____	$_____	$_____
0005F	**Price per foot of 4" Monitoring Well 11 to 20 feet**	$_____	$_____	$_____	$_____	$_____
0005G	**Price per foot of 4" Monitoring Well 21 to 60 feet**	$_____	$_____	$_____	$_____	$_____
0005H	**Price per foot of 4" Monitoring Well 61 to 150 feet**	$_____	$_____	$_____	$_____	$_____
0005I	**Price per foot closing 2" Monitoring Well**	$_____	$_____	$_____	$_____	$_____
0005J	**Price per foot closing 4" Monitoring Well**	$_____	$_____	$_____	$_____	$_____
0005K	**Mobilization Cost for Monitoring Wells.**	$_____	$_____	$_____	$_____	$_____
0006	**Conduct Direct Push Testing (DPT) IAW TASK 5 of the SOW**					
0006A	**Price Per Unit of DPT (5 pores per unit)**	$_____	$_____	$_____	$_____	$_____
0006B	**Mobilization Cost for DPT Testing**	$_____	$_____	$_____	$_____	$_____
0007	**Sample Beach and Ocean Sediment and Shellfish**					
0007A	**Price per Ocean Sediment Sample**	$_____	$_____	$_____	$_____	$_____
0007B	**Price per Beach Sediment Sample**	$_____	$_____	$_____	$_____	$_____
0007C	**Price per Shellfish Sample**	$_____	$_____	$_____	$_____	$_____
0007D	**Mobilization Costs for Shellfish Sampling**	$_____	$_____	$_____	$_____	$_____
0008	**Conduct Analytical Testing, Cost Per Test for the Following Procedures:**					
0008A	418.1 (NYSDOH 310.13 TPH)	$_____	$_____	$_____	$_____	$_____
0008B	503.1 (for DFSP Verona)	$_____	$_____	$_____	$_____	$_____
0008C	6010	$_____	$_____	$_____	$_____	$_____
0008D	8015	$_____	$_____	$_____	$_____	$_____
0008E	8021	$_____	$_____	$_____	$_____	$_____
0008F	8041	$_____	$_____	$_____	$_____	$_____

0008G	8081	$_____	$_____	$_____	$_____	$_____
0008H	8121	$_____	$_____	$_____	$_____	$_____
0008I	8151	$_____	$_____	$_____	$_____	$_____
0008J	8260	$_____	$_____	$_____	$_____	$_____
0008K	8270	$_____	$_____	$_____	$_____	$_____
0008L	8310	$_____	$_____	$_____	$_____	$_____
0008M	8440	$_____	$_____	$_____	$_____	$_____
0008N	601	$_____	$_____	$_____	$_____	$_____
0008O	602	$_____	$_____	$_____	$_____	$_____
0008P	604	$_____	$_____	$_____	$_____	$_____
0008Q	608	$_____	$_____	$_____	$_____	$_____
0008R	610	$_____	$_____	$_____	$_____	$_____
0008S	612	$_____	$_____	$_____	$_____	$_____
0008T	624	$_____	$_____	$_____	$_____	$_____
0008U	625	$_____	$_____	$_____	$_____	$_____
0008V	**TCLP Metals (Arsenic, Barium, Cadmium, Lead Mercury, Selenium, Silver)**	$_____	$_____	$_____	$_____	$_____
0008AA	9045	$_____	$_____	$_____	$_____	$_____
0008AB	1010/1020	$_____	$_____	$_____	$_____	$_____
0008AC	Bioassay (Toxicity)	$_____	$_____	$_____	$_____	$_____
0008AD	Chloride	$_____	$_____	$_____	$_____	$_____
0008AE	Sulfates	$_____	$_____	$_____	$_____	$_____
0008AF	Sulfides	$_____	$_____	$_____	$_____	$_____
0008AG	Nitrogen	$_____	$_____	$_____	$_____	$_____
0008AH	Phenols	$_____	$_____	$_____	$_____	$_____
0008AI	Turbidity	$_____	$_____	$_____	$_____	$_____
0008AJ	Lead	$_____	$_____	$_____	$_____	$_____
0008AK	pH	$_____	$_____	$_____	$_____	$_____
0008AL	Settleable Solids	$_____	$_____	$_____	$_____	$_____
0008AM	Total Dissolved Solids	$_____	$_____	$_____	$_____	$_____

0008AN	BOD	$_____	$_____	$_____	$_____	$_____
0008AO	Suspended Solids	$_____	$_____	$_____	$_____	$_____
0008AP	EDB	$_____	$_____	$_____	$_____	$_____
0008AQ	Phenolic Compounds (Chlorinated)	$_____	$_____	$_____	$_____	$_____
0008AR	Oil & Grease	$_____	$_____	$_____	$_____	$_____
0008AS	**EPA-TO-14 (BTEX Only)**	$_____	$_____	$_____	$_____	$_____
0008AT	Nitrate/Nitrite	$_____	$_____	$_____	$_____	$_____
0008AU	Ammonia	$_____	$_____	$_____	$_____	$_____
0008AV	Total Organic Carbon	$_____	$_____	$_____	$_____	$_____
0008AW	Orthophosphate	$_____	$_____	$_____	$_____	$_____
0008AX	Moisture Content	$_____	$_____	$_____	$_____	$_____
0008AY	Total Bacterial Plate Count	$_____	$_____	$_____	$_____	$_____
0008AZ	Selective Bacterial Plate Count	$_____	$_____	$_____	$_____	$_____
0008BA	Soil Properties Testing API RP40	$_____	$_____	$_____	$_____	$_____
0008BB	Grain Size ASTM D 4464	$_____	$_____	$_____	$_____	$_____
0008BC	Hydraulic Conductivity ASTM 2434/5084	$_____	$_____	$_____	$_____	$_____
0009	**Perform Monitoring Well Survey IAW TASK 9 of the SOW**					
0009A	**Price per Unit of Well Location Surveying (10 wells/unit)**	$_____	$_____	$_____	$_____	$_____
0010	**Install and Maintain Recovery Well IAW TASK 10 of the SOW**					
0010A	**Price per 6” Recovery Wells up to 10 ft (including water table depression and free product recovery pump)**	$_____	$_____	$_____	$_____	$_____
0010B	**Price per foot of 6” Recovery Well from 11 to 20 feet**	$_____	$_____	$_____	$_____	$_____
0010C	**Price per foot of 6” Recovery Well from 21 to 60 ft**	$_____	$_____	$_____	$_____	$_____
0010D	**Price per foot of 6” Recovery Well from 61 to 120 ft**	$_____	$_____	$_____	$_____	$_____
0010E	**Mobilization Costs for 6” Recovery Well**	$_____	$_____	$_____	$_____	$_____
0010F	**Monthly price for Operation and Maintenance of 6” Recovery Well**	$_____	$_____	$_____	$_____	$_____

0010G	**Cost of Installing Water Table Depression and Free Product Recovery Pump System on a 4" Monitoring Well**	$_____	$_____	$_____	$_____	$_____
0010G	**Cost of Installing Water Table Depression and Free Product Recovery Pump System on a 4" Monitoring Well**	$_____	$_____	$_____	$_____	$_____
0010H	**Mobilization Cost for 4" Recovery Pump System**	$_____	$_____	$_____	$_____	$_____
0010I	**Monthly Price for Operation and Maintenance of 4" Recovery Well**	$_____	$_____	$_____	$_____	$_____
0011	**Install and Maintain Recovery Trench System IAW TASK 11 of the SOW**					
0011A	**Lump Sum Price Per Unit of Recovery Trench System, Including Free Product Recovery and Water Table Depression Pump**	$_____	$_____	$_____	$_____	$_____
0011B	**Mobilization Cost for Recovery Trench Construction and Recovery Pump System Installation**	$_____	$_____	$_____	$_____	$_____
0011C	**Monthly Cost for Operation and Maintenance of Recovery Trench**	$_____	$_____	$_____	$_____	$_____
0012	**Lump Sum Price to Conduct Pump Tests IAW TASK 12 of the SOW**	$_____	$_____	$_____	$_____	$_____
0013A	**Vapor Extraction System**					
0013AA	Vapor Extraction System Feasibility Study/Pilot Test	$_____	$_____	$_____	$_____	$_____
0013AB	**Price Per Hour for Development of Vapor Extraction System Documentation**	$_____	$_____	$_____	$_____	$_____
0013B	**Bioremediation System**					
0013BA	**Lump Sum Price for Bioremediation System Feasibility Study**	$_____	$_____	$_____	$_____	$_____
0013BB	**Price Per Hour for Development of Bioremediation System Feasibility Documentation**	$_____	$_____	$_____	$_____	$_____
0013C	**Air Stripper**					
0013CA	**Lump Sum Price for Air Stripper Pilot Test**	$_____	$_____	$_____	$_____	$_____
0013CB	**Price Per Hour for Development of Air Stripper Pilot Test Documentation**	$_____	$_____	$_____	$_____	$_____

0013D	**Liquid Phase Carbon Adsorption System**					
0013DA	**Lump Sum Price for Liquid Phase Carbon Adsorption System**	$_____	$_____	$_____	$_____	$_____
0013DB	**Price Per Hour for Development of Liquid Phase Carbon Adsorption System Documentation**	$_____	$_____	$_____	$_____	$_____
0013E	**Bioventing Pilot Test**					
0013EA	**Lump Sum Price for Bioventing Pilot Test**	$_____	$_____	$_____	$_____	$_____
0013EB	**Price Per Hour for Development of Bioventing Pilot Test Documentation**	$_____	$_____	$_____	$_____	$_____
0013F	**Air Sparge Pilot Test**					
0013FA	**Lump Sum Price for Air Sparge Pilot Test**	$_____	$_____	$_____	$_____	$_____
0013FB	**Price Per Hour for Development of Air Sparge Pilot Test Documentation**	$_____	$_____	$_____	$_____	$_____
0013G	**Steam Injection Bench Scale Test**					
0013GA	**Lump Sum Price per Steam Injection Bench Scale Test**	$_____	$_____	$_____	$_____	$_____
0013GB	**Price Per Hour for Development of Steam Injection Bench Scale Test Documentation**	$_____	$_____	$_____	$_____	$_____
0013H	**Bioslurp Pilot Test**					
0013HA	**Lump Sum Price for Bioslurp Pilot Test**	$_____	$_____	$_____	$_____	$_____
0013HB	**Price Per Hour for Development of Bioslurp Pilot Test Documentation**	$_____	$_____	$_____	$_____	$_____
0014	**Site Operations and Monitoring**					
0014A	**Periodic Sampling**	$_____	$_____	$_____	$_____	$_____
0014B	**Site Operations and Maintenance (Craney Island)**	$ _____	$_____	$_____	$_____	$_____
0015	**Perform a Risk Analysis IAW TASK 15 of the SOW**					
0015A	**Lump Sum Price Risk Analysis to Include 5 Copies of the Report**	$_____	$_____	$_____	$_____	$_____
0015B	**Price Per Hour for Risk Analysis in Excess of those Included in Lump Sum**	$_____	$_____	$_____	$_____	$_____

0016	**Provide Report of Findings IAW TASK 16 of the SOW**					
0016A	**Lump Sum Price for Report Preparation to Include 5 copies of the Report**	$_____	$_____	$_____	$_____	$_____
0016B	**Price Per Hour for Report in Excess of those Included in Lump Sum**	$_____	$_____	$_____	$_____	$_____
0017	**Miscellaneous Services IAW TASK 17 of the SOW**					
0017A	**Project Manager Price Per Hour**	$_____	$_____	$_____	$_____	$_____
0017B	**Engineer I Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017C	**Engineer II Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017D	**Engineer III Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017E	**Chemist Price Per Hour**	$_____	$_____	$_____	$_____	$_____
0017F	**Environmental Scientist I Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017G	**Environmental Scientist II Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017H	**Environmental Scientist III Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017I	**Geologist I Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017J	**Geologist II Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017K	**Geologist III Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017L	**Hydrogeologist I Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017M	**Hydrogeologist II Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017N	**Hydrogeologist III Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017O	**Toxicologist I Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017P	**Toxicologist II Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017Q	**Toxicologist III Price Per Hour***	$_____	$_____	$_____	$_____	$_____
0017R	**Drafter Price Per Hour**	$_____	$_____	$_____	$_____	$_____
0017S	**Traffic Control Engineer Price Per Hour**	$_____	$_____	$_____	$_____	$_____
0017T	**Cost Accountant Price Per Hour**	$_____	$_____	$_____	$_____	$_____
0017U	**Secretary Price Per Hour**	$_____	$_____	$_____	$_____	$_____
0017V	**Site Labor Foreman Price Per Hour**	$_____	$_____	$_____	$_____	$_____

0017W	**Remediation System Operator Price Per Hour**	$_____	$_____	$_____	$_____	$_____
0017X	**Heavy Equipment Operator Price Per Hour**	$_____	$_____	$_____	$_____	$_____
0017Y	**Laborer Price Per Hour**	$_____	$_____	$_____	$_____	$_____
0017Z	**Drill Rig Operator Price Per Hour**	$_____	$_____	$_____	$_____	$_____
0017AA	**Engineering Technician Price Per Hour**	$_____	$_____	$_____	$_____	$_____
0017AB	**Utility Truck Price Per Day**	$_____	$_____	$_____	$_____	$_____
0017AC	**02/Explosimeter Price Per Day**	$_____	$_____	$_____	$_____	$_____
0017AD	**Sampling Pump Price Per Day**	$_____	$_____	$_____	$_____	$_____
0017AE	**Flame Ionization OCA Price Per Day**	$_____	$_____	$_____	$_____	$_____
0017AF	**Air Velocity Meter Price Per Day**	$_____	$_____	$_____	$_____	$_____
0017AG	**Field GC Price Per Day**	$_____	$_____	$_____	$_____	$_____
0017AH	**Furnish and Fill with Soil or Water DOT Approved 55 Gal Drum, Price Per Drum**	$_____	$_____	$_____	$_____	$_____
0017AI	**Shipping of Soil and Water Samples for Analytical Testing Price Per 251b Shipping Container**	$_____	$_____	$_____	$_____	$_____
0017AJ	**Disposable Bailers**	$_____	$_____	$_____	$_____	$_____
0017AK	**500 CFM Thermal Oxidizer (for 6 months use, including mobilization and demobilization)**	$_____	$_____	$_____	$_____	$_____
0017AL	**Tedlar Bags Price Per Dozen**	$_____	$_____	$_____	$_____	$_____
0017AM	**Pickup Truck (1/2 ton) Price Per Day**	$_____	$_____	$_____	$_____	$_____
0017AN	**1 CY Backhoe Loader Price Per Day**	$_____	$_____	$_____	$_____	$_____
0017AO	**1 1/2 CY Hydraulic Excavator Price Per Day**	$_____	$_____	$_____	$_____	$_____
0017AP	**Drill Rig Price Per Day**	$_____	$_____	$_____	$_____	$_____
0017AQ	**Dewatering Pump (150 GPM) Price Per Day**	$_____	$_____	$_____	$_____	$_____
0017AR	**Air Compressor (7 cfm) Price Per Day**	$_____	$_____	$_____	$_____	$_____
0017AS	**Generator (4000 watt) Price Per Day**	$_____	$_____	$_____	$_____	$_____
0017AT	**CAD Equipment Use Charge Price Per Day**	$_____	$_____	$_____	$_____	$_____

0017AU	**Photoionization Detector Price Per Day**	$_____	$_____	$_____	$_____	$_____
0018	**Markup for Overhead & Profit****	_____%	_____%	_____%	_____%	_____%
0019	**Lump Sum Price for Background Review**	$_____	$_____	$_____	$_____	$_____

***Where labor grade classifications are used (e.g., I, II, III), I is the lowest skill level, II is the intermediate, and III is the highest skill level.**
****State as a percentage, it will be added to the Direct Cost of Work Negotiated under CLIN 0018**

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M28.04.100 BASIS FOR AWARD (DESC DEC 2002) (Amended)

(a) Award of any contract resulting from this solicitation shall be made using source selection procedures. Proposals submitted in response to the solicitation will be evaluated by a board of one or more Government personnel, with selection made on the basis of each offeror's ability to satisfy the requirements of the solicitation. Final selection will be made by the Source Selection Authority.

(b) Award will be made on the basis of the proposal that conforms to the solicitation and is determined to contain the combination of technical, management, and cost features representing the best overall value to the Government, cost or price, technical, management, quality, and other factors considered. For this solicitation, technical and management factors combined are significantly more important than cost or price. As proposals become more equal in their technical merit, the evaluated cost or price and past performance become more important. Technical and management evaluation areas listed in descending order of importance are--

(1) Technical/Management. Within this factor, the following three subfactors are the highest ranked and each are of equal importance:

(i) Technical merit and general responsiveness of the proposal, particularly in addressing the sample scenario in Paragraph L201.01.100;

(ii) Petroleum remediation experience of the Offeror;

(iii) Petroleum remediation experience of the Offeror's Project Manager;

The remaining three subfactors are listed in descending order of importance;

(iv) Contractor initiatives to reduce costs;

(iv) Response time;

(v) In-house capability.

(2) Past Performance. This factor will be evaluated using information from references provided by the contractor under Clause L201.01.100. The Government reserves the right to consider any additional information on the offeror obtained through other means.

(3) Price. This factor will be evaluated by multiplying the proposed prices in Clause B35 by the estimated units shown in the following schedule for the respective line items. The Government reserves the right to award to other than the lowest evaluated price. NOTE: The estimates provided below are for evaluation purposes only and do not represent any guarantee on the government's part to order the quantities listed.

NOTE: The estimates provided below are for evaluation purposes only and do not represent any guarantee on the Government's part to order the quantities listed.

ESTIMATED QUANTITIES (YEAR 1)

Contract Line Item Number	Services	Verona Quantity	Searsport Quantity	Newington Quantity	Melville Quantity	FISC Norfolk Quantity
0001A	Work Plan	0	0	0	4	6
0001B	Work Plan Excess Hours	0	0	0	80	450
0002A	Soil Gas Units - 4 foot depth	0	0	0	0	10
0002B	Soil Gas Units - 14 feet depth	0	0	0	0	10
0002C	Soil Gas Survey Mobilizations	0	0	0	0	4
0003A	Geophysical Survey Units	0	0	0	1	2
0004A	Boring up to 5 feet	0	0	0	20	20
0004B	Feet of Boring 6 to 20 feet	0	0	0	300	20
0004C	Feet of Boring 21 to 60 feet.	0	0	0	800	20
0004D	Feet of Boring 61 to 150 feet.	0	0	0	1400	0
0004E	Mobilizations for Soil Borings	0	0	0	2	2
0005A	2" Monitoring Well up to 10 feet	0	0	0	0	10
0005B	Feet of 2" Well 11 to 20 feet	0	0	0	0	250
0005C	Feet of 2" Well 21 to 60 feet.	0	0	0	0	200
0005D	Feet of 2" well 61 to 150 feet.	0	0	0	0	0
0005E	4" Monitoring Well up to 10 feet	0	0	0	10	10
0005F	Feet of 4" Monitoring Well 11 to 20 feet	0	0	0	100	250
0005G	Feet of 4" Well 21 to 60 feet	0	0	0	400	0
0005H	Feet of 4" Well 61 to150 feet	0	0	0	900	0
0005I	Feet of Closing/Abandoning 2" dia. Well	0	0	0	25	50
0005J	Feet of Closing/Abandoning 4" dia. Well	0	0	0	30	100

0005K	Mobilizations for Monitoring Wells.	0	0	0	2	2
0006A	DPT Units	0	0	0	2	10
0006B	Mobilization for DPT Testing	0	0	0	1	1
0007	**Sample Beach and Ocean Sediment and Shellfish**					
0007A	Price per Ocean Sediment Sample	0	0	0	0	15
0007B	Price per Beach Sediment Sample	0	0	0	0	15
0007C	Price per Shellfish Sample	0	0	0	0	2
0007D	Mobilization Costs for Shellfish Sampling	0	0	0	0	2
0008	**Analytical Testing**					
0008A	418.1	20	0	0	0	0
0008B	503.1	20	0	0	0	0
0008C	6010	0	0	0	40	40
0008D	8015	0	0	0	130	40
0008E	8021	0	0	0	100	40
0008F	8041	0	0	0	0	30
0008G	8081	0	0	0	0	30
0008H	8121	0	0	0	0	30
0008I	8151	0	0	0	15	30
0008J	8260	0	0	0	50	40
0008K	8270	0	0	0	0	42
0008L	8310	0	0	0	0	40
0008M	8440	0	0	0	10	52
0008N	601	26	0	20	25	40
0008O	602	26	0	20	50	40
0008P	604	0	0	0	0	0
0008Q	608	0	0	0	0	0
0008R	610	0	0	0	0	16
0008S	612	26	0	0	0	0
0008T	624	26	0	20	0	4
0008U	625	0	0	0	0	0
0008V	TCLP Metals	20	0	20	5	40
0008AA	9045	0	0	0	0	0
0008AB	1010/1020	0	0	0	0	0
0008AC	Bioassay (Toxicity)	0	0	0	25	0
0008AD	Chloride	0	0	0	1	0
0008AE	Sulfates	0	0	0	25	0
0008AF	Sulfides	0	0	0	5	0
0008AG	Nitrogen	0	0	0	5	0
0008AH	Phenols	0	0	0	5	0
0008AI	Turbidity	0	0	0	5	0
0008AJ	Lead	0	0	0	5	0
0008AK	PH	0	0	2	50	12
0008AL	Settleable solids	0	0	0	15	0
0008AM	Total Dissolved Solids	0	0	0	15	0
0008AN	BOD	0	0	20	5	0
0008AO	Suspended Solids	0	0	0	5	0
0008AP	EDB	0	0	0	15	0
0008AQ	Phenolic Compounds (Chlorinated)	0	0	0	5	0
0008AR	Oil & Grease	0	0	12	25	0
0008AS	EPA-TO-14 (BTEX Only)	0	0	0	10	0
0008AT	Nitrate/Nitrite	0	0	0	5	0
0008AU	Ammonia	0	0	0	5	0
0008AV	Total Organic Carbon	0	0	20	5	0
0008AW	Orthophosphate	0	0	0	5	0

0008AX	Moisture Content	0	0	0	5	0
0008AY	Total Bacterial Plate Count	0	0	0	5	0
0008AZ	Selective Bacterial Plate Count	0	0	0	5	0
0008BA	Soil Properties Testing API RP40	0	0	0	1	0
0008BB	Grain Size ASTM D 4464	0	0	0	1	0
0008BC	Hydraulic Conductivity ASTM 2434/5084	0	0	0	1	0
0009	Well Location Surveying Units	0	0	0	2	6
0010A	6" Recovery Wells up to 10 Feet	0	0	0	0	3
0010B	Feet of 6" Recovery Well 11 to 20 Feet	0	0	0	0	25
0010C	Feet of 6" Recovery Well 21 to 60 Feet	0	0	0	0	20
0010D	Feet of 6" Recovery Well from 61 to 120 Feet	0	0	0	0	0
0010E	Mobilizations for 6" Recovery Well.	0	0	0	0	3
0010F	Months of 6" Recovery Well O&M	0	0	0	0	36
0010G	Install Pump System on Exst'g 4" Well	0	0	0	0	3
0010H	Mobilizations for Pump Install on Exst'g 4" Well	0	0	0	0	3
0010I	Months of 4" Recovery Well O&M	0	0	0	0	36
0011A	Units of Recovery Trench Installation	0	0	0	0	3
0011B	Mobilizations for Recovery Trench Installation	0	0	0	0	3
0011C	Months of Recovery Trench O&M	0	0	0	0	36
0012	Pump Tests	0	0	0	0	6
0013AA	Vapor Extraction System Feasibility Study/Pilot Tests	0	0	0	0	3
0013AB	Hours for Development of System Documentation	0	0	0	0	150
0013BA	Bioremediation System Feasibility Study	0	0	0	0	3
0013BB	Hours for Development of System Documentation	0	0	0	0	150
0013CA	Air Stripper Pilot Test	0	0	0	0	3
0013CB	Hours for Development of System Documentation	0	0	0	0	60
0013DA	Liquid Phase Carbon Adsorption System	0	0	0	1	3
0013DB	Hours for Development of System Documentation	0	0	0	50	75
0013EA	Bioventing Pilot Test	0	0	0	1	3
0013EB	Hours for Development of System Documentation	0	0	0	90	150
0013FA	Air Sparge Pilot Test	0	0	0	0	3
0013FB	Hours for Development of System Documentation	0	0	0	0	60
0013GA	Steam Injection Bench Scale Test	0	0	0	0	3
0013GB	Hours for Development of System Documentation	0	0	0	0	150
0013HA	Bioslurping Pilot Test	0	0	0	0	3
0013HB	Hours for Development of System Documentation	0	0	0	0	60
0014A	Periodic Monitoring	2	2	2	N/A	2
0015	Perform a Risk Analysis IAW TASK 14 of the SOW					
0015A	Lump Sum Price Risk Analysis to Include 5 Copies of the Report	0	0	0	0	6
0015B	Price Per Hour for Risk Analysis in Excess of those Included in Lump Sum	0	0	0	0	600
0016A	Reports	2	2	2	15	6
0016B	Excess Hours for Report Preparation	0	0	0	200	600
0017A	Project Manager Hours	30	40	40	600	600

0017B	Engineer I Hours	0	30	0	200	900
0017C	Engineer II Hours	40	40	20	240	300
0017D	Engineer III Hours	0	0	0	200	300
0017E	Chemist Hours	16	16	30	80	450
0017F	Environmental Scientist I Hours	20	20	20	100	750
0017G	Environmental Scientist II Hours	0	0	0	10	600
0017H	Environmental Scientist III Hours	0	0	0	100	600
0017I	Geologist I Price Hours	60	60	60	120	900
0017J	Geologist II Hours	8	8	8	160	600
0017K	Geologist III Price Hours	8	8	8	200	150
0017L	Hydrogeologist I Hours	8	8	8	80	300
0017M	Hydrogeologist II Hours	8	8	8	100	150
0017N	Hydrogeologist III Hours	8	8	8	120	300
0017O	Toxicologist I Hours	8	8	8	60	150
0017P	Toxicologist II Hours	0	0	0	80	75
0017Q	Toxicologist III Hours	0	0	0	75	75
0017R	Drafter Hours	40	40	40	220	300
0017S	Traffic Control Engineer Hours	0	0	0	0	75
0017T	Cost Accountant Hours	30	40	40	160	600
0017U	Secretary Hours	20	30	30	250	600
0017V	Site Labor Foreman Hours	0	0	0	300	3000
0017W	Remediation System Operator Hours	0	0	0	0	240
0017X	Heavy Equipment Operator Hours	0	0	0	180	600
0017Y	Laborer Hours	0	0	0	1300	1500
0017Z	Drill Rig Operator Hours	0	0	0	130	600
0017AA	Engineering Technician Hours	0	40	20	1600	750
0017AB	Utility Truck Days	0	0	0	70	300
0017AC	02/Explosimeter Days	0	0	0	160	60
0017AD	Sampling Pump Days	2	4	2	40	30
0017AE	Flame Ionization OCA Days	0	0	0	40	30
0017AF	Air Velocity Meter Days	0	0	0	30	20
0017AG	Field GC Days	0	0	0	10	75
0017AH	DOT Approved 55 Gal Drums	0	0	0	280	120
0017AI	Ship 25lb Units of Soil and Water Samples	2	2	0	2	300
0017AJ	Disposable Bailers	30	60	30	30	30
0017AK	500 CFM Thermal Oxidizer	0	0	0	1	30
0017AL	Tedlar Bags (dozen)	0	0	0	10	600
0017AM	Pickup Truck (1/2 ton) Days	6	12	4	100	100
0017AN	1 CY Backhoe Loader Days	0	0	0	10	30
0017AO	1 1/2 CY Hydraulic Excavator Days	0	0	0	15	45
0017AP	Drill Rig Days	0	0	0	28	30
0017AQ	Dewatering Pump (150 GPM) Days	0	0	0	30	30
0017AR	Air Compressor (7 cfm) Days	0	0	0	18	30
0017AS	Generator (4000 watt) Days	0	0	0	20	15
0017AT	CAD Equipment Use Charge Days	2	2	2	15	75
0017AU	Photoionization Detector Days	0	0	0	45	75
0018	Other Direct Costs (Dollars x 1000)* * Cost evaluation will be made using dollar figure shown times the percent of overhead and profit provided by the Offeror in Contract Line Item 0017 of **Clause B35 SERVICES TO BE PROVIDED AND PRICES**.	25	25	25	150	200
0019	Lump Sum Price for Background Review	1	1	1	1	1

(4) Socio-Economic Plan. This factor will be evaluated on a comparative basis among all offerors. An Offeror that proposes a higher percentage, complexity level, and variety of participation by small, small disadvantaged and women-owned small businesses

combined, generally will receive a higher rating on this factor. An offeror that plans to compile and consider past performance data on its subcontractors in the source selection decision for subcontracts will receive a higher rating on this factor. An Offeror's efforts to develop additional

opportunities for small, small disadvantaged and women-owned small businesses will also be comparatively evaluated with the proposals of other offerors. Offerors' proposals for socioeconomic support will be made a part of any resulting contract for use in determining how well the Contractor has adhered to its socioeconomic plan. This plan will be monitored as a means of assisting the Contracting Officer in determining how well the Contractor has in fact performed. This determination will then be used as a consideration prior to future source selection decisions. Past performance on prior contracts in subcontracting and assisting small, small disadvantaged, and women-owned small businesses will also be evaluated as part of this factor.

NOTE: As a matter of clarification, offerors will receive a higher rating under the Technical/Management evaluation for the capability to perform required services in-house. The Socioeconomic Plan evaluation will consider that part of the required services that cannot be performed in-house.

(c) Award(s) will be made to the Offeror(s) whose proposal conforms to the solicitation and represents the best value to the Government, after consideration of all evaluation factors listed above.

Questions and Answers:

Question #12. Do you want the proposal presented in five separate binders (Volume I - Certification Package; Volume II - Technical Proposal; Volume III - Past Performance; and Volume IV - Socioeconomic Plan) or tabbed sections?

Answer: It is your option to submit three separate binders or one binder with each section tabbed and clearly marked as long as your offer includes one original and one copy. The Certification Package, shall contain the following items:

Volume I or Section I of your offer:
All Representations, Certifications and Fill-in Clauses to include Clause B35
Socioeconomic Plan
Contractor's Accounting System

Volume II or Section II of your offer:
Technical/Management

Volume III or Section III of your offer:
Past Performance